

ABSTRACT

Complex acoustic information, such as music, is presented as visual information or as movement of an object in a manner simulating the reception of the complex acoustic information by the human auditory system including a complexity of tempo, rhythms, intensity variation from highs to lows, and silences of the audio, providing a synchronicity with these characteristics. The acoustic information is processed by an acoustic human-like auditory transformation. The transformation may be varied depending on the presentation controlled by the device. The transformed signal is then applied to a tactile or visual presentation. The audience reception of the invention is through light, color, or animation of an image or object complementing the reception of the acoustic information.